

BIBLIOGRAPHY

C. FITZHUGH TALMAN, *in Charge of Library*

RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

- Argentina.** Dirección de meteorología, geofísica e hidrología. Carta isogónica de la República Argentina y países limítrofes. n. p. n. d. 1 sheet. 100 x 63½ cm.
 — [Publications.] Serie D. Publ. N° 1. Buenos aires. 1933. 25 cm. 1. Instrucciones aerológicas. Parte primera. Observaciones de globos pilotos. Año 1933. 91 p. illus. plates (fold.).
- Bigelstone, H. J.** Sixty years' rainfall at the Liverpool observatory. [London.] n. d. p. 397-402. tables. 25 cm. Doodson, A. T., and Bigelstone, H. J. Frequency distribution of rainfall at Liverpool observatory, Bidston. p. 403-411. tables. 25 cm. (Royal met'l socy. Quart. j. v. LX, no. 257. October, 1934.)
- B[rooks], C[harles] F., & Block, Lylian H.** William Morris Davis [Biography by C. F. B.] Bibliography, by Lylian H. Block. [Worcester, Mass.] n. d. [7 p.] 22½ cm. (Repr.: Bull. American met'l socy., March, 1934, v. 15, pp. 56-61.)
- Camm, H. E., & Banfield, H. E.** The frequency and velocity of the wind above Sydney . . . From pilot balloon observations at Sydney Weather Bureau during period 1926-1932. Sydney. 1934. 3 p. and 17 oversize maps. 34 cm. (Mimeographed.)
- Clarke, Katharine B.** Meteorological results during cruise VII of the Carnegie, 1928-1929. [Wash., D. C.] [1934.] p. 1969-1976. illus. 23½ cm. (5th Pacific science congress. A4. 47.)
- Defant, A.** Der Abfluss schwerer Luftmassen auf geneigten Boden nebst einigen Bemerkungen zu der Theorie stationärer Luftströme. Berlin. 1933. 14 p. diagr. 26 cm. (Sonderausgabe aus den Sitzungsberichten der Preussischen Akademie der Wissenschaften. Phys.-math. Klasse. 1933. XVIII.)
- Delambre.** Bibliographie météorologique. Tomes I à IV. Années 1921-1924. Paris: Société météorologique de France. n. d. (Office national météorologique et Société météorologique de France.)
- Finnell, H. H.** Prevention and control of wind erosion of high plains soils in the Panhandle area. n. p. n. d. 22 p. 27 cm. (Mimeographed.)
- Fontseré, Eduard.** Les "seixes" de la costa Catalana. Barcelona. 1934. 12 p. diagr. 22 cm. (Servei met. de Catalunya. Notes d'estudi. No. 58.)
- France. Ministry of foreign affairs. États du Levant. (Mandat français.)** Bulletin climatologique. Septembre 1928-août 1933. n. p. n. d. 32 cm.
- Goldberg, Josip.** Die Insolationsdauer in Zagreb. Aus 36-jährigen Registrierungen. (Trajanje insolacije u Zagrebu na osnovi 36-godisnjih registracija.) (Bulletin international de l'Académie Yougoslave des sciences et des beaux-arts de Zagreb; classe des sciences mathématiques et naturelles.—Livre 27. (1933.)) Zagreb. 1933. 160 p. plus 63 p. German abstract. tables, diagrs. 23 cm. (Auszug aus "Rad," Bd. 246, S. 119-160.) [Text in Polish, with German abstract.] Godisnji i dnevni period oblašnosti u Zagrebu. Zagreb. 1931. 64 p. figs. 23 cm. (For German abstract, see "Jährliche und tägliche Periode der Bewölkung in Zagreb.") — Jährliche und tägliche Periode der Bewölkung in Zagreb. Zagreb. 1931. 19 p. 23 cm. (German abstract of "Godisnji i dnevi period oblašnosti u Zagrebu.")
- Great Britain. Meteorological office.** Decode for use with the international code for wireless weather messages from ships . . . 3d ed., rev. to 1st November 1934. London. 1934. 28 p. 24½ cm.
 — Gazetteer of British meteorological stations used in the preparation of synoptic reports. London. 1931. unp. illus. 23 cm. (Overseas supplement. London. 1933. n. p. 23 cm. M. O. 319/1.)
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- Hale, Peter G.** Report on the weather of the Asiatic station. n. p. [1933.] 92 plus 38 p. 54 loose maps, of various sizes. 27 cm. (Mimeographed sheets and blue prints.)
- Hamburg.** Öffentliche Wetterdienststelle. Die Frühjahrsschäfte an der Unterelbe und ihre Bekämpfung. Kleinklimatologie und Nachtfröstschatz. 1930-1933. Hamburg. n. d. 25 p. fold. maps in back, tables. 29 cm. (Zusammengefasste Ergebnisse der Öffentlichen Wetterdienststelle Hamburg.)
- Herrmann, Martin.** Scirocco-Einbrüche in Mitteleuropa (Ein Beitrag zur Analyse der 5-b-Depressionen vom 25. April und 16. Mai 1926). 1929. Leipzig. p. 181-253. tables (6 fold.), diagrs. 24 cm. (Veröff. Geophys. Inst. Univ. Leipzig. 2te ser. Spezialarb. Geophys. Inst. Band 4. Heft 4.)
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SOLAR OBSERVATIONS**SOLAR RADIATION MEASUREMENTS DURING NOVEMBER 1935**

By IRVING F. HAND, Assistant in Solar Radiation Investigations

For a description of instruments employed and their exposures, the reader is referred to the January 1935 REVIEW, page 24.

Table 1 shows that solar radiation intensities averaged close to normal at Washington for November and above normal at both Madison and Lincoln.

Table 2 shows a deficiency in the amount of total solar and sky radiation at all stations with the exception of Lincoln, Chicago, New York, New Orleans, and Riverside. Beginning with November, departures from normal will regularly be published for Blue Hill, Mass., as sufficient measurements have now been obtained to establish normals.

In table 3 the values of water vapor determined from the observations at 0:48 and 0:44 hour angle on the morning of November 18 show markedly the necessity for not only very clear skies for good determinations, but also precise instrumental measurements. In this 4-minute interval the radiation increased less than 3 percent; yet the value of the water vapor, as determined by this method, decreased 84 percent.

Polarization measurements obtained on 5 days at Washington give a mean of 58 percent with a maximum of 63 percent on the 25th. At Madison, observations obtained on 2 days give a mean of 67 percent with a maximum of 69 percent on the 20th. All of these values are close to the corresponding November normals.

LATE DATA.—The values of the total solar and sky radiation received on a horizontal surface during the weeks beginning October 1, 8, 15, and 22 are as follows: Miami; 310, 224, 309, and 378. Blue Hill; 380, 416, 395, and 304.

TABLE 1.—*Solar radiation intensities during November 1935*
[Gram-calories per minute per square centimeter of normal surface]

WASHINGTON, D. C.

Date	Sun's zenith distance										Local mean solar time				
	8 a. m.		78.7°		75.7°		70.7°		60.0°		0.0°	60.0°	70.7°	75.7°	78.7°
	75th mer. time.		Air mass												
	e.		5.0	4.0	3.0	2.0	* 1.0		2.0	3.0	4.0	5.0	e		
Nov. 8	mm	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	mm	5.56	
Nov. 9	7.29	0.49	0.58	.76	.97									6.76	
Nov. 18	5.56	4.95	.96	1.08	1.26									4.17	
Nov. 22	5.36	.59	.70	.78	.97									5.56	
Nov. 25	2.49					1.18	1.32							2.87	
Means	(0.54)		.75	.96	1.14										
Departures	- .22	- .12	- .05	- .04											

MADISON, WIS.

Nov. 1	3.63														3.99
Nov. 20	2.87														3.81
Nov. 21	2.74	1.07	1.19												1.68
Nov. 23	1.78	.90		1.22	1.40										1.96
Means	(.98)	(1.19)	(1.22)	(1.40)											
Departures	+ .09	+ .18	+ .08	+ .10											

LINCOLN, NEBR.

Nov. 1	2.16	1.04	1.12												3.15
Nov. 5	3.15														6.33
Nov. 7	4.37	.70	.86	1.06	1.28										5.56
Nov. 8	5.18			1.18	1.37										5.36
Nov. 12	2.87														3.81
Nov. 18	5.56	.95	1.06	1.22	1.42										6.76
Nov. 22	2.36	.95	1.06	1.22	1.42										2.49
Nov. 23	3.15	.99	1.07												4.57
Nov. 29	3.81	1.07	1.19	1.28											4.75
Nov. 30	3.99	1.06	1.18	1.29											5.16
Means	.96	1.07	1.19	1.36											.97
Departures	+ .05	+ .05	+ .02	+ .01											+ .05

BLUE HILL, MASS.

Nov. 3	5.2	1.07	1.20	1.35	1.41										4.8
Nov. 4	6.5	1.11	1.18	1.27	1.36										6.3
Nov. 7	4.2	1.03	1.09												5.2
Nov. 8	6.9														6.8
Nov. 9	3.6	1.05	1.08	1.12	1.20										5.2
Nov. 11	11.5					1.00									11.9
Nov. 14	5.6														5.6
Nov. 19	4.2	.82	.98	1.14	1.30										4.4
Nov. 21	5.0	1.02	1.07	1.08	1.09										5.6
Nov. 25	1.7	.97	1.11	1.26	1.42										3.2
Nov. 26	3.2					1.01	1.15								.83
Nov. 27	4.6					1.20	1.31								4.4
Nov. 29	7.4					1.15		1.08							5.4
Nov. 30	4.0					1.05	1.06								3.6
Means		1.01	1.10	1.16	1.22			1.19	1.03	1.01	.71				

* Extrapolated.